CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CEMENT/2016-17 Date: 18.11.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Executive Engineer,** KRIDL, Bangalore.
*NAME OF THE WORK	:	Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	16.11.2016
PERIOD OF TESTING	:	16.11.2016 to 18.11.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/SAND-Gradation/2016-17 : 18.11.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of Work** : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 1

Sample Received on : 16.11.2016

Date of Testing : 18.11.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	81.00	60-95	75-100	85-100	95-100
1.18	60.00	30-70	55-90	75-100	90-100
600 Micron	21.80	15-34	35-59	60-79	80-100
300 Micron	15.30	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/AGG/GR/2016-17 : 18.11.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of Work	: Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) – Sample 1
Sample Received on	: 16.11.2016
Date of Testing	: 18.11.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	37.40	30-70	0-20
10	13.40	10-35	0-5
4.75	1.76	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.06/KRIDL /STEEL/2016-17 18.11.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Executive Engineer,** KRIDL, Bangalore.
Name of the Work	:	Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016
Date of Test	:	18.11.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 23.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016
* Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 23.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.11.2016	23.12.2016	8.163	479.3	21.30
2	25.11.2016	23.12.2016	8.265	502.2	22.32
3	25.11.2016	23.12.2016	8.347	513.4	22.82

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 23.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016
* Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 23.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.11.2016	23.12.2016	8.208	485.5	21.58
2	25.11.2016	23.12.2016	8.314	508.4	22.60
3	25.11.2016	23.12.2016	8.398	529.6	23.54

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 23.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

* Agency : **Executive Engineer,** KRIDL, Bangalore.

* Name of the work : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

* Reference : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 23.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.11.2016	23.12.2016	8.135	510.4	22.68
2	25.11.2016	23.12.2016	8.256	529.6	23.54
3	25.11.2016	23.12.2016	8.304	556.9	24.75

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 07.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

*** Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.02.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.159	498.9	22.17
2	10.01.2017	07.02.2017	8.298	518.3	23.04
3	10.01.2017	07.02.2017	8.305	532.6	23.67

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Reference** : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

*** Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.02.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.265	499.8	22.21
2	10.01.2017	07.02.2017	8.328	526.6	23.40
3	10.01.2017	07.02.2017	8.410	528.3	23.48

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

*** Sample ID** : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.02.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.150	475.5	21.13
2	10.01.2017	07.02.2017	8.235	493.6	21.94
3	10.01.2017	07.02.2017	8.307	512.4	22.77

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 07.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.02.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	07.02.2017	8.102	485.5	21.58
2	10.01.2017	07.02.2017	8.235	505.6	22.47
3	10.01.2017	07.02.2017	8.392	512.2	22.76

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T-2377

Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 25.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

* Agency : **Executive Engineer,** KRIDL, Bangalore.

* Name of the work : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

* Reference : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

* Sample ID : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 25.01.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2016	25.01.2017	8.205	485.5	21.58
2	28.12.2016	25.01.2017	8.299	492.3	21.88
3	28.12.2016	25.01.2017	8.354	513.6	22.83

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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T-2377

Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 25.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

* **Agency** : **Executive Engineer,** KRIDL, Bangalore.

* **Name of the work** : Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.

* **Reference** : BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016

* **Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 25.01.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2016	25.01.2017	8.135	482.3	21.44
2	28.12.2016	25.01.2017	8.298	492.5	21.89
3	28.12.2016	25.01.2017	8.335	505.8	22.48

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/W.No.06/KRIDL/CSR-11/195d/CUBE/2016-17 31.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	: **Executive Engineer,** KRIDL, Bangalore.
* Name of the work	: Improvements to Roads and Drains at R K Hegadenagara and surrounding areas in Ward No.06, Thanisandra, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/147/2016-17 Dated: 09.11.2016
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 31.01.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2017	31.01.2017	8.192	498.3	22.15
2	03.01.2017	31.01.2017	8.235	499.9	22.22
3	03.01.2017	31.01.2017	8.305	520.8	23.15

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 31.01.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.01.2017	31.01.2017	8.175	478.3	21.26
2	03.01.2017	31.01.2017	8.258	492.6	21.89
3	03.01.2017	31.01.2017	8.363	512.7	22.79

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Technical Manager

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